

ALG.2 REVIEW FINAL

1. 156, 153, 150, 147, 144, 141

CONSTANT DIFFERENCE -3

2. $8p + 2$
 $p = 7$

$$8 \cdot 7 + 2 = 56 + 2 = 58$$

3. $V = 215 - 10x$
↑
DEDUCTED
 $x = 7$ (7 VISITS)

$$\begin{aligned} V &= 215 - 10 \cdot 7 = \\ &= 215 - 70 = \\ &= \underline{\underline{145}} \end{aligned}$$

4. $3(4f + 2g)^2$ $f = 5$ $g = 5$

$$3(4.5 + 2.5)^2 = 3(20 + 10)^2 =$$

$$= 3(30)^2 = 3 \cdot 900 = 2700$$

5. $y = x + 3$

x	y
0	3
1	4
2	5
3	6
4	7

ALSO
NOTE THAT
Y-INTERCEPT
IS 3

6. $y = 2x - 6$

x	1	2	3	4
y	$2 \cdot 1 - 6$ <u>-4</u>	$2 \cdot 2 - 6$ <u>-2</u>	$2 \cdot 3 - 6$ <u>0</u> A	$2 \cdot 4 - 6$ <u>2</u>

7.

YEAR	89	90	91	92	93	94	95	96
DISTANCE	36.3	38.225	37.9	40.7	41.5	45.425	45.1	44.775

[STAT]

L₁ - YEAR

L₂ - DISTANCE

[8] [STAT] [4] [2nd] [L₁] [2nd] [L₂]

[9] [VARS] [▶] [ENTER]
[ENTER] [ENTER]

8. OPPOSITE OF 8 is -8

$$9. (-71) + (-29) = -100$$

$$10. (-91) + (41) = -50$$

$$\begin{aligned} 11. \quad & -7.697 - (-3.73) = \\ & = -7.697 + 3.73 = - \\ & \quad = -3.967 \end{aligned}$$

12. $20(-2) \div 4 = -\frac{40}{4} = -10$

13. A $\frac{0}{2} = 0$

B $-\frac{7}{0}$ IS UNDEFINED

C $\frac{0}{1} = 0$

D $\frac{0}{0}$ - UNDEFINED

$$14. (5x-2)+(2x-6)$$

$$\underline{5x} - \underline{2} + \underline{2x} - \underline{6} = 7x - 8$$

$$15. (6x+4y)+(8x+5y)$$

$$\underline{6x} + \underline{4y} + \underline{8x} + \underline{5y} = \\ = 14x + 9y$$